

Receiving Report

Date:

15-01-5

Batch No:

131187

Supplier:

B/E

Dart P/O:

26840

Packing Slip: Yes No
 Invoice: Yes No
 Receipt: Cash Cr
 New Supplier Yes No

Release Note Attached: Yes No N/A
 Waybill Attached: Yes No
 Shipment Complete: Yes No N/A
 QC18 Inspection:
 Work Order:

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number

Initials of Receiver

QC12

Production/Admin:

Date

Received/Costing

Initial

Location



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO26870**

Purchase Order Date 12/22/2014

PO Print Date 12/22/2014

Page Number 1 of 3

Order From : VU-BEA001

B/E AEROSPACE INC
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

Ship To : DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED

Contact Name

Vendor Phone 305-925-2600

Buyer Chantal Lavoie

Ship To Contact

Ship To Phone

Ship Via: FedEx Overnight collect

Customer POID

10127-2607

Customer Tax #

Net 30

Terms

USD

Currency

FOB FCA - (Free Carrier)

Ship Acct:

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	PO Unit Price	Extende d Price
1	MS21060-L3K	Nut Plate	12/23/2014 Yes 12/23/2014		200.00 Each	\$0.97	\$194.0
2	MS9321-09	Washer	12/23/2014 Yes 12/23/2014		300.00 Each	\$0.06	\$18.00
3	MS21061L08	Nutplate	12/23/2014 Yes 12/23/2014		50.00 Each	\$0.88	\$44.00

Note:

88 15015



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO26870**

Purchase Order Date 12/22/2014
PO Print Date 12/22/2014

Page Number 2 of 3

Order From : VU-BEA001
B/E AEROSPACE INC
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name	Buyer	Chantal Lavoie
Vendor Phone	Customer POID	
	Customer Tax #	10127-2607
Ship To Contact	Terms	Net 30
Ship To Phone	Currency	USD
Ship Via:	FOB	FCA - (Free Carrier)
Ship Acct:		

						Line Total:	\$44.0
4	MS21069L3	ANCHOR NUT	12/23/2014	FN	50.00	✓	\$0.35
			Yes		Each		\$17.5
			12/23/2014				
						Line Total:	\$17.5
5	MS21073L5	Anchor Nut	12/23/2014	FN	50.00	✓	\$3.75
			Yes		Each		\$187.5
			12/23/2014				
						Line Total:	\$187.5
6	MS17985-C410	Pip Pin 'T'	12/23/2014	FN	3.00	✓	\$15.00
			Yes		Each		\$45.0
			12/23/2014				

Note:

SO15015
Line Total: \$45.0



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO26870**

Purchase Order Date 12/22/2014
PO Print Date 12/22/2014

Page Number 3 of 3

Order From : **VU-BEA001**
B/E AEROSPACE INC
88289 EXPEDITE WAY
CHICAGO, IL 33172
USA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	305-925-2600	Customer POID	
Ship To Contact		Customer Tax #	10127-2607
Ship To Phone		Terms	Net 30
Ship Via:	FedEx Overnight collect	Currency	USD
Ship Acct:		FOB	FCA - (Free Carrier)

7	71401-45	PROCUREMENT QUALITY CLAUSES	12/23/2014	1.00	✓	\$0.00	\$0
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Procurement Quality Clauses
A005 RIGHT OF ENTRY
A012 CHEMICAL AND PHYSICAL TEST REPORTS
A016 PERSONNEL QUALIFICATION
A026 CERTIFICATION OF MATERIAL CONFORMANCE
A032 PUBLIC LAW 101-592 FASTENER QUALITY ACT
A033 STATEMENT OF CONFORMITY/TEST RECORDS
FOR NAS, AN and MS FASTENERS
A040 NOTIFICATION OF QUALITY ESCAPE
A041 QUALITY MANAGEMENT SYSTEM
A042 DART NOTIFICATION BY SUPPLIER
A043 RETENTION OF QUALITY DOCUMENT

SL 15-01-5

Line Total: \$0.

PO Total: \$506.

u cd

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.



B/E Aerospace, Inc.

CONSUMABLES MANAGEMENT

SEND TO ACCOUNTING

Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.beconsumables.com

Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001

Wire Instructions: B/E Aerospace Consumables Management • JPMorgan Chase Bank New York

ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

HXRSM6

PAGE 1 OF 3

SOLD TO:

002409

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

ORDER NO.		DATE	SHIP VIA	TERMS		SHIPPING TERMS		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION		PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
001	200	MS21060L3K LOCKNUT, PLATE - TWO LUG ECCN :9A991 Country Origin: MEXICO TARIFF: 7318.16.0085 MFR: ALCOA KAYNAR FULLERTON CTRL# : 2008C04655 LOT# : 5277262-000 LOT QTY: 200 COUNTRY OF ORIGIN: MX Country of Origin: MEXICO		0.970	EA	0	200	194.00
002	300	MS9321-09 WASHER ECCN :9A991 Country Origin: USA TARIFF: 7318.22.0000 MFR: MOELLER MFG CTRL# : 2014G26286 LOT# : 1029-6/4/14 LOT QTY: 300 COUNTRY OF ORIGIN: USA Country of Origin: USA		0.060	EA	0	300	18.00
003	50	MS21061L08 LOCKNUT, PLATE - ONE LUG ECCN :9A991 Country Origin: USA TARIFF: 7318.16.0085 MFR: PAOLO ASTORI CTRL# : 2010D16477 LOT# : 33204 LOT QTY: 50		0.880	EA	0	50	44.00

CONTINUED

MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY B/E AEROSPACE

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10000 NW 15 TERRACE, MIAMI, FL 33172

ORIGINAL INVOICE

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS INVOICE, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:
http://www.beconsumables.com/cm/conditions_of_sale.cfm



B/E Aerospace, Inc.

CONSUMABLES MANAGEMENT

INVOICE NUMBER

HXRSM6

PAGE 2 OF 3

SEND TO ACCOUNTING

SOLD TO:

002409

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

ORDER NO.		DATE	SHIP VIA		TERMS		SHIPPING TERMS	
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION		PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
004	50	COUNTRY OF ORIGIN: USA Country of Origin: USA MS21069L3 LOCKNUT, PLATE - TWO LUG ECCN :9A991 Country Origin: ITALY TARIFF: 7318.16.0085 MFR: PAOLO ASTORI CTRL# : 2014J27181 LOT# : 60363 LOT QTY: 50		0.350	EA	0	50	17.50
005	50	COUNTRY OF ORIGIN: IT Country of Origin: ITALY MS21073L5 LOCKNUT, PLATE - CORNER ECCN :9A991 Country Origin: ITALY TARIFF: 7318.16.0085 MFR: PAOLO ASTORI CTRL# : 2014A56393 LOT# : 51767 LOT QTY: 50		3.750	EA	0	50	187.50
006	3	COUNTRY OF ORIGIN: IT Country of Origin: ITALY MS17985C410 PIN ECCN :9A991 Country Origin: USA TARIFF: 7318.24.0000 MFR: AVIBANK MFG. CTRL# : 2014C05649		15.000	EA	0	3	45.00

CONTINUED

MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY B/E AEROSPACE

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10000 NW 15 TERRACE, MIAMI, FL 33172

ORIGINAL INVOICE

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS INVOICE, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:
http://www.beconsumables.com/cm/conditions_of_sale.cfm



B/E Aerospace, Inc.

CONSUMABLES MANAGEMENT

SEND TO ACCOUNTING

Tel: +1.305.925.2600 • Fax: +1.305.507.7191 • www.beconsumables.com

Remit to Address: 88289 Expedite Way, Chicago, IL 60695-0001

Wire Instructions: B/E Aerospace Consumables Management • JPMorgan Chase Bank New York

ABA: 021000021 • Account: 304639273 • SWIFT: CHASUS33 • CHIP UID: 0002

INVOICE NUMBER

HXRSM6

PAGE 3 OF 3

SOLD TO:

002409

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

SHIP TO:

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY, ON
CANADA K6A 1K7

ORDER NO.		DATE	SHIP VIA	TERMS		SHIPPING TERMS		
PO26870		12/22/14	FEDX INTL P1 COLL	NET 45		FOB-MIAMI		
ITEM NO.	QUANTITY ORDERED	PART NUMBER AND DESCRIPTION		PRICE	UNIT	BACK ORDER	SHIPPED	AMOUNT
		LOT# : 1402728 LOT QTY: 3 COUNTRY OF ORIGIN: USA Country of Origin: USA <i>These commodities, technology or software were exported from the United States in accordance with the Export Administration Regulations. Diversion contrary to U.S. law is prohibited.</i> *** SHIPPED 1 CTN *** # 1=CTN 4# 0 OZ. 624703805359 FREIGHT ACCT# 15179324-0						
apay 9F6TZ6 SHIPPED ON 12/22/14 form #16007.000303 **CONSOLIDATION# 1B5LAN								
SUBTOTAL : 506.00 HANDLING : 0.00 DISC/ALL : 0.00 INCM FRT : 0.00 FREIGHT : 0.00 TOTAL : 506.00USD U.S. CURRENCY								

MATERIAL TO BE RETURNED MUST HAVE PRIOR AUTHORIZATION BY B/E AEROSPACE

ALL ITEMS ARE SUBJECT TO A 100% RESTOCKING CHARGE.

SHIPPED FROM: 10000 NW 15 TERRACE, MIAMI, FL 33172

ORIGINAL INVOICE

BY RECEIVING DELIVERY OF THE ITEMS COVERED BY THIS INVOICE, BUYER AGREES TO THE TERMS AND CONDITIONS OF SALE AT:
http://www.beconsumables.com/cm/conditions_of_sale.cfm



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO26870

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REP#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
------	----------	-----	-------------	-----------	------------	--------------	-------	----------	----------

003	50	EA	MS21061L08		33204	PAOLO ASTORI	A3856		
-----	----	----	------------	--	-------	--------------	-------	--	--


Jason Lewis
Vice President of Quality

12/22/14



PAOLO ASTORI SPA

Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel. (+39) 0322 838847
Fax (+39) 0322 880198
Web: www.paoastori.com



CERTIFICATO DI CONFORMITA'
CERTIFICATE OF CONFORMANCE

N° 2650 | Data 16/04/2010

Spedit:

B/E AEROSPACE INC. CONSUMABLES MANAG
9835 NW 14TH ST.
MIAMI - FL
USA

Si certifica che il materiale sotto elencato è stato collaudato presso la nostra officina e risulta conforme ai requisiti dei vostri ordini e alle specifiche dei disegni ivi richiamati.

This is to certify that goods listed below have been inspected in our plant and are up to your orders and to the specifications of the drawings mentioned therein.

Pos.	Descrizione merce	Rif. Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
1	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	
2	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	
3	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	
4	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	
5	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	
6	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	
7	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	
8	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	
9	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	
10	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	
11	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	
12	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	
13	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	
14	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREMENT OF BAE/AQ/SC1 PART 3- APPROVAL # SAE/AG30631/MAA AND WITH AIRBUS BAS APPROVAL # 204788

Airbus approval # 204788

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The sellers manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, as seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequent user beyond the invoice value of the parts in subject.

PAOLO ASTORI



PAOLO ASTORI SPA

Via Mirabella, 9
28013 Maggiate Superiore (NO)
Tel. (+39) 0322 838847
Fax (+39) 0322 880198



INSPECTION CERTIFICATE

33204

Report # 33204
 Customer P/N MS21061L08 (NAS687A08)
 Astori product code 10AD25A086N13
 Lot # 33204
 Procurement Spec. NASM25027
 Raw material Spec. SAE1042
 Raw Material Lot # - 2068

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The sellers manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, as seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequent user beyond the invoice value of the parts in subject.

Purchase Order Ref: B/E AEROSPACE INC. CONSUMABLES MANAG (P.O. OAW700)

TEST DESCRIPTION	SAMPLES #	UNIT	REQUIRED VALUES		ACTUAL VALUES	OPERATOR BADGE #
			Min	Max		
AXIAL TENSILE LOAD (N)	N		7654		>9050	118
DIMENSIONAL INSPECTION	*		*	*	OK	OK
DISCONTINUITY INSPECTION	*		*	*	OK	OK
HARDNESS TEST	HRC		49	40-2-43-8	118	118
LOCKING TORQUE (Nm)	Nm		0.17	1.73	1.3-0.8-0.3	118
THICKNESS OF COATING	micron		8	12	9-11	118
VISUAL INSPECTION	*		*	*	OK	OK

Note:

This is to certify that parts have been produced, controlled and accepted according to the requirements of the above specification.
 Material, heat treatments and manufacturing processes are the same as those used for the qualification approval.
 The chemical analysis values have been reproduced from the original certificates released by the raw material supplier.

PRIMARY HEAT CHEMISTRY

C	0.445	Mn	0.650	Si	0.210	S	0.003	P	0.013
Al	0.025	Cr	0.250						

This is to certify that the goods have been produced, inspected and accepted according to the requirements of the above Specification.

The supplies hereon are released to you in accordance with the requirements of BAE/AG/SC1 PART 3 under our approval number BAE/AG/30631/MAA

Issue Date 17/03/2010

EN10204 COMPLIANT - DESIGNATION 3.1.B

Preparato da:
Gabriele Campagnoli



PAOLO ASTORI SPA

Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel. (+39) 0322 838847
Fax (+39) 0322 880198
Web: www.paoloastori.com



DOCUMENTO DI TRASPORTO (D.d.T.)

N° 2650	Data 16/04/2010	Pag. 2 / 2
Spedt:	9449 B/E AEROSPACE INC.CONSUMABLES MANAG 9835 NW 14TH ST. MIAMI - FL USA	
Destinazione:	370 B/E AEROSPACE INC.CONSUMABLES MANAG 9835 NW 14TH ST. 33172 MIAMI - FL US	

Cod.Cliente							
Pos.	Descrizione merce	Rif.Ordine	Data Ordine	Quantità	U.M.	Lotto	Peso
14	MS21061L08 (NAS687A08) (TR)	0AW700	09/02/2007	5000	N	33204	

* SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204768

Aspetto esteriore merce	Comprende DdT n°	Segue su DdT n°
Tramite spedizione VETTORE	Modalità di consegna PORTO ASSEGNATO	Firma conducente
Causale trasporto VENDITA PRODUZIONE	Data Inizio trasporto	Firma destinatario
Primo vettore FEDERAL EXPRESS EUROPE INC. # 327657348	Data ritiro merce	Firma primo vettore
Secondo vettore	Data ritiro merce	Firma secondo vettore

AI SENSI DELL'ART.13 D.LGS 196 DEL 30/06/2003 IL DESTINATARIO PUO' AVERE ACCESSO AI SUOI DATI E CHIEDERNE LA MODIFICA, COME PREVISTO DALL'ART.7 DEL D.LGS 196 DEL 30/06/2003, SCRIVENDO A PAOLO ASTORI SPA, VIA MIRABELLA 8, 28013 MAGGIATE SUPERIORE - GATTICO (NO)



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO26870

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REP#	LOT-NUMBER	MANUFACTURER	CCODE	MPR DATE	EXP DATE
006	3	EA	MS17995C410		1402728	AVIBANK MFG.	84256		



Jason Lewis
Vice President of Quality

12/22/14

** DEARS ** ** CERT Q13-P **


AVIBANK
MFG. INC.

AEROSTRUCTURES DIVISION, A PCC COMPANY

11500 SHERMAN WAY • NORTH HOLLYWOOD, CA 91605

PHONE: (818) 392-2100 • FAX: (818) 255-2094

No ozone depleting substances used in processes.

SHIPPER

DATE SHIPPED

02/24/14

**CERTIFICATE OF
CONFORMANCE**

PAGE	OF	DATE ENTERED	SALES ORDER NO.
1	2	08/15/13	663037-7872

B 103866
 I B/E AEROSPACE
 L 10000 N.W. 15TH TERRACE
 L
 T MIAMI, FL
 O USA 33172

S B/E AEROSPACE CONSUMABLE MGMT
 H 9835 NW 14TH ST
 I
 T MIAMI, FL
 O USA 33172

CUSTOMER ORDER NO.							CONTRACT NUMBER	RATING	ORDERED BY	REC'D BY	TERRIORY NO.
ORSF84									JANETZA	GLE	124
0	1	1	3	N	N	R	VAR #:	TYPE OF INSPECTION	TERMS	FREIGHT	

SHIPPED VIA

FEDEX GROUND

ITEM NO.	NO. SHIPPED	UNITS	PART NUMBER / DESCRIPTION	NO. BACKORDERED
001	500	E	FEDEX ACCT# 0331-0149-0 QAP 33.0 CLAUSES A,A.1,B,C,E,H,P,U,V APPLY *** 3 LOT MAX *** RELEASE #GVM60RSF84 BLC4TA10S MS17985C410 SHIP#: 1 QTY : 296 LOT:1402728 AREA :NS AISLE :E SEC:19 SHIP#: 1 QTY : 150 LOT:1406596 AREA :NS AISLE :E SEC:2 SHIP#: 1 QTY : 54 LOT:1406597 AREA :C6 AISLE :1 SEC:14	0
002	1	L	270-CERT Q13-P CHEM & PHY CERTS 001 SHIP#: 1 QTY : 1 LOT: AREA : AISLE : SEC:	0 DUE : SHELF

PULLER	SHIPPED BY	SHIP VIA	DATE SHIPPED	WAYBILL/OTHER INFO.	NO. OF PKGS.	WEIGHT
Our Own Label			2/24/14			

We hereby certify that all materials used in the manufacture of parts covered by this report conform to the material specifications called for by the above purchase order. We further certify that the parts are manufactured in accordance with applicable drawings or specifications current on the date on which the order was placed. Test reports covering materials in these parts, and indicating conformance with applicable specifications, are on file and subject to examination. No ozone depleting substances were used in processes. Parts are mercury free of contamination.

WI-14-AMS-004 REV:NC

AVIBANK MFG., INC.

BY: *OSCAR*
 AUTHORIZED QUALITY CONTROL REPRESENTATIVE

Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / ~~Purchaser/Client~~
VALBRUNA STAINLESS INC.
2400 TAYLOR STREET WEST
46801-FORT WAYNE, IN 46801-US

Produttore: ACCIAIERIE VALBRUNA S.P.A.
~~Hauskenn/Item/Usine producenta~~

Stato di fornitura: Hot rolled - Annealed Cold Drawn
~~Lieferzustand/Delivery state/Etat de livraison~~



QUALITY MANAGEMENT SYSTEM
CERTIFIED BY LLOYD'S REGISTER

Aviso di Spedizione: D-VI13017145
~~Uferverzettel/Packing label~~

Ordine nr: 35928 STOCK CHINO
~~Bestell/Votre order/Commande~~

Tipo di Elaborazione: E+AOD
~~Erhitzungs-/Metall process/Mode d' elaboration~~

CERTIFICATO DI COLLAUDO ABNAHMEPRUEFZEUGNIS INSPECTION CERTIFICATE CERTIFICAT DE RECEPTION EN 10204 (2004), 3.1

Certificato nr: MEST358011/2013/
~~Prüfung/Test/Essai~~

Conferma ordine nr: EI13004535
~~Werks/Our Order Ref. n.~~

Marchio di Fabbrica:
~~Zeichen des Unternehmens/
Trade mark/
Sigle de l' usine/producente~~



Punzone del Collaudatore:
~~Stempel des Werksechtesverständigen/
Inspector à tampon de l' assayeur~~



Q. C. Review
Sig. *Nancy*
Date *10/8/13*

LOT# 1381726

Vicenza, 06/06/13
VC0008
(Mod. NCE2)

Il collaudatore di stabilimento / der Werksechtesverständige / Works Inspector / L' agent d' usine

M. Rizzotti *[Signature]*

Pagina - 2 di 2

RE: Shippers #94

PHONE: (310) 537-1597
FAX: (310) 537-0503

Thorock Metals, Inc.

QUALITY INGOTS

ALUMINUM PROCESSING AND RECYCLING
P.O. BOX 3012 435 E. WEBER AVENUE COMPTON, CA 90222

Aluminum Die Casting Alloy Certificate of Analysis

Heat Number:

4235

Alloy:

380

ELEMENT	PERCENTAGE	Specification Range (minimum - maximum)
Silicon	Si 3.17	✓ 7.50 - 9.50
Iron	Fe 0.97	✓ 2.00
Copper	Cu 3.16	✓ 3.00 - 4.00
Manganese	Mn 0.20	✓ 0.50
Magnesium	Mg 0.08	✓ 0.10
Zinc	Zn 2.85	✓ CERT REVIEW 3.00
Nickel	Ni 0.08	MAIN LOT # 1402728 0.50
Chromium	Cr 0.03	COMPONENT LOT # KB30533
Titanium	Ti 0.06
Lead	Pb 0.05	NAME HANDLE CLERK: GV NC DS
Tin	Sn 0.04	0.35
OET	< 0.50	✓ 0.50
Aluminum	Al Remainder	✓ Remainder

This Product was Manufactured in the United States of America

Conforms to ASTM B 85/B 85M - 10

Conforms to AMS and QQ / A / 591F

This Product is RoHS Compliant

Conforms to SAE J452

Samples are analyzed on an optical emission spectrometer with current calibration status.
Standards are traceable to NIST.

WARNING: Metal may contain crevices that hold entrapped moisture which can explode when charged to a melting furnace. Dry and preheat all metal before charging it into the furnace. Handle with caution.

Wednesday, July 31, 2013

QSF 13 Issue 2.

Page 1 of 1

ENTERED 8/1/13
BY: AWG page 9918

Jen Carino



Anodizing Industries' Certification

Los Angeles, CA 90032
323-227-0949
Fax#: 323-227-0535
5160 Alhambra Ave

Prepared Date	Work Order #
11/21/2013	7036

BILL TO	SHIP TO
AVIBANK MFG 11500 SHERMAN WAY NORTH HOLLYWOOD, CA 91605	AVIBANK MFG 11500 SHERMAN WAY NORTH HOLLYWOOD, CA 91605

P.O. Number	Date Received	Ship Date	Ship Via
752229	12/21/2013	11/20/2013	

QUANTITY	PART #	PART NAME	CERTIFIED PROCESS
3,874	5-4AT	HANDLE REV G	ANODIZE PER MIL-A-8625, TYPE II, CLASS 2 DYE BLACK. PER DWG# 5-XXAT REV. G FOR REFERENCE ONLY. MATL: ALUM ALLOY

CERT REVIEW

MAIN LOT #
1402728

COMPONENT LOT #
KB30533

NAME

HANDLE

CLERK: GV — NO DS —

Q. C. Review
Sig.
Date 11/21/13

LOT#1394429

QA Inspected By Date 11/21/13	ATT QA	NDT Level II	Date _____
----------------------------------	--------	--------------	------------

Anodizing Industries must be notified of any discrepancies within 3 days of receipt. Any liabilities for discrepancies or damages to parts are subject to negotiation and not to exceed 3 times the cost of services provided.



Linear Motion. Optimized.

SHIP TO: AVIBANK MFG INC
11500 SHERMAN WAY
NORTH HOLLYWOOD CA 91605
United States

CERTIFICATE OF CONFORMITY		
DELIVERY NAME: 2861389	DATE PRINTED: 16-OCT-2013	PAGE: 1 of 1
<u>SHIP FROM:</u> ABEK LLC 492 Birch Street Bristol CT 06010 United States		
Tel: (860) 314-3921 Fax: (860) 314-3942		
<u>BILL TO:</u> AVIBANK MFG INC 11500 SHERMAN WAY NORTH HOLLYWOOD CA 91605 United States		

PICK-UP DATE: 03-OCT-2013	SHIP METHOD: UPS-Truck-Ground			FREIGHT TERMS: COLLECT - FROM ORIGIN		FSCM:	
DELIVERY TERMS EXWORKS FACTORY	TAX NAME: EXEMPT	CUSTOMER TAX NUMBER:		WAYBILL: 1Z0176470367415479			
SHIPPING INSTRUCTIONS: ACCT# 60X10X				TAG NUMBER/REF:		PO REF#:	
ITEM NUMBER SS0078121CXXXDF	REFERENCE ITEM NUMBER SS0078121CXXXDF	ITEM DESCRIPTION 5/64 440C GRADE 100 (DFAR REQUIRED) - SS0078121CXXXDF	CUSTOMER ITEM NUMBER 746187	QTY/BIN NO. 1733769	GROSS WEIGHT 1.1	UOM/C UNIT OF MEASURE MPC	ATM CONDITION 100.01
COUNTRY OF ORIGIN: ****EAR99****	United States	Heat Number G16861R09		Hardness Test HRC		Hardness 60-61	
Lot Number L0012680	Quantity 100.0	Material meets DFAR 252.225-7008:7014. Material certs meet ASTM F-2215. Material meets AMS QQ-S 763 and AMS 5630 Country of Origin (Ball): USA Country of Mkt (Material): USA Heat Treat meets AMS 2759/5					
These commodities, technology or software, if being exported from the United States must be exported in accordance with the Export Administration Regulations. Diversion contrary to U.S. Law is prohibited.							
DO NOT SHIP OUT UNTIL 10/04/2013 - CARLOS FIGUEROA							
CERT REVIEW							
MAIN LOT # <u>1402728 1406594</u>	COMPONENT LOT # <u>KB30507</u>	NAME <u>BALL</u>	CLERK: GV NC DS	NUMBER OF PACKAGES 1	GROSS WEIGHT 8.0 LB	VOLUME	
THE UNDERSIGNED, INDIVIDUALLY, AND AS THE AUTHORIZED REPRESENTATIVE OF THOMSON INDUSTRIES INC., WARRANTS AND REPRESENTS THAT: ALL THE INFORMATION SUPPLIED ABOVE IS TRUE AND ACCURATE; THE MATERIAL COVERED BY THIS CERTIFICATION CONFORMS TO ALL CONTRACT REQUIREMENTS (INCLUDING BUT NOT LIMITED TO THE DRAWING AND SPECIFICATIONS); THE INSPECTION AND THE ANALYSIS HEREIN ARE TRUE AND ACCURATE.							
QUALITY ASSURANCE MANAGER AUTHORIZED SIGNATURE							

PERTH, ON
ERIN, ON
DUMAS, AR
LANCASTER, SC
FOND DU LAC, WI

613-267-3752 FAX 613-267-5817
519-633-9632 FAX 519-633-2113
870-382-2880 FAX 870-382-6988
803-283-3353 FAX 803-283-6303
920-926-0809 FAX 920-926-0662



CENTRAL WIRE

UNION, IL
HOUSTON, TX
PERRIS, CA

816-923-2131 FAX 816-923-2126
713-466-1000 FAX 713-466-7425
951-657-2106 FAX 951-643-0051

THE LEADING MANUFACTURER OF STAINLESS STEEL, NICKEL ALLOYS AND WELDING WIRE PRODUCTS
EXECUTIVE OFFICES: PERTH, ON CANADA - EMAIL: sales@centralwire.com

CENTRAL WIRE LANCASTER
1582 CASKEY ROAD, LANCASTER,
SOUTH CAROLINA U.S.A. 29720

CERTIFICATE OF CONFORMANCE

SOLD TO USA	NEW ENGLAND MINIATURE BALL, LLC P.O. BOX 585 NORFOLK	CT 06058-0585	SHIP TO USA	NEW ENGLAND MINIATURE BALL, LLC 163 GREENWOODS ROAD WEST NORFOLK	CT 06058-0585
----------------	--	---------------	----------------	--	---------------

CUSTOMER'S PO NO. 028994-00	TYPE OF CERT Customer	CUSTOMER 121470	ORDER NO. 1157709	WORK ORDER 1 4116821	DATE SHIPPED 1/21/11
SPECIFICATIONS: ROD TENSILE 118.0 (UNITS KSI)					

ITEM DESCRIPTION		SPEC. CLASS	HEAT
Forming 440C ANNEALED Black .1200 Coils Std. Clean	Melt mill USA Country of origin USA	G16861R09	
	QTY SHIP 2478	035	

CHEMICAL ANALYSIS						
C 1.03 ✓	MN .76 ✓	SI .29 ✓	S .003 ✓	P .014 ✓	CR 16.98 ✓	W < .05
V .05	NI .32 ✓	MO .49 ✓	CO < .05	CU < .02 ✓	SN .005	CB .01
AL < .01 ✓	Ti < .01	N .046				

MECHANICAL PROPERTIES						
AS SHIPPED PROPERTIES:	DIAMETER .1201					
TENSILE 97.800 KSI	HARDNESS 92.000					
AFTER HEAT TREAT PROPERTIES:						

ASM 5630 AMS-QQ-S-763 ASTM A756 ASTM-F2215	AMS 5618	AMS 5880	10-12-13	DFARS OK
The material as shipped is free from mercury contamination. I certify the chemical analysis and physical and mechanical test results reported above are correct as contained in the records of the company.	Very truly yours,			Debbie S. AUTHORIZED SIGNATURE

CERT REVIEW

MAIN LOT #

1402728, 1406596

COMPONENT LOT #

\$B30160

NAME

Body

CLERK: GV NC DS

TRI STAR METALS, LLC.**611 WEST LAMM ROAD****FREESTATE, IL 61032****An ISO 9001:2008 Registered Company****CERTIFICATE DATE:** 8/27/13**CUSTOMER:** COPPER & BRASS**ORDER#:** 200183**CUSTOMER PO#:** 5400185706-R05**MATERIAL:** 17-4PH ✓**DESCRIPTION:** .255" X 12"**HEAT NUMBER:** E130597**QTY. SHIPPED:** 1,458 LBS**CONDITION:** ANNEALED**PART #:** XSSRD05811**CHEMICAL COMPOSITION**

C	Mn	Si	S	P	Ni	Cr	Mo	Other Elements
.0130	.7300	.3470	.0270	.0280	4.690	15.29	.2900	Cu=.378 Co=.1110 N=.0310 Ti=.0020 Nb=.2700 Al=.0020 B=.0010 Sn=.0080 V=.0500 W=.0300 As=.0010 Ca=.0020 Ta=.0030 Pb=.0002

MECHANICAL VALUES

TENSILE (KSI)	YIELD (KSI)	ELONGATION (%)	REDUCTION OF AREA (%)	HARDNESS
138	128	11	66	279 HB

✓ H900 HT CAPABILITIES 900F FOR 1 HR AIR COOL

TENSILE (KSI)	YIELD (KSI)	ELONGATION (%)	REDUCTION OF AREA (%)	HARDNESS
200	198	11	55	406 HB

ADDITIONAL REMARKS:

This material meets the chemistry specifications for AMS 5643R, ASTM A564-04, ASTM A484-10, ASME-SA-564 CHEM & MECH. MACRO & MICRO STRUCTURES OK PER AMS 5643. DELTA FERRITE=.4%

MATERIAL IS FREE FROM MERCURY CONTAMINATION. EN10204 3.1.B
COUNTRY OF MELT: ENGLAND

MATERIAL IS MANUFACTURED IN THE UNITED STATES OF AMERICA

I hereby certify that this data is correct as contained in the records of this company.

ThyssenKrupp Materials NA	Customer:
17-4 PH COPPER & BRASS Sales Division Sold To:	James P. Elliott-Quality Process Manager
OSD-007 REV. ORG. 4/17/2013	Q. C. Review
Customer: AVIONIC MFG	Sig. <i>[Signature]</i>
Your PO#: 140183	Date 10/31/13
CBS Order #: 140183	Lot # 1387955
Quantity: 524 LB	
Date: 10-29-13	
By: [Signature]	
Quality Check	

James P. Elliott-Quality Process Manager

Q. C. Review

Sig. *[Signature]*

Date 10/31/13

Lot # 1387955



Outokumpu Stainless Ltd.
ASR Rod Mill
Stevenson Road
Sheffield, S9 3XG
Telephone: +44 (0) 114 242 1124
Fax: +44 (0) 114 242 2152

Prüf-Nr
Test certificate No.
No du certificat

77869

In Accordance With EN 10204.3.1

Rechnungs-Nr Invoice/Cos No		Bestell-Nr Customer Order No No de commande client	NORM 17/4PH(630) Rev 09-13-11 (UNS S17400) COND. A	SPECIFICATION V	NORME						
ADDRESS Tri Star Metals LLC 611 W.Lamm Rd Freeport, Illinois 61032 USA 61032			Werk-Nr Werk-Order-Nr Nr de commandes usines Lieferstandort Supply Location (Ort der Fertigung) Material Artikel Product Stückzahl Quantity Quantité Schmelze-Nr Cast No No de Coulée	AV200606/01 SOFTENED AND DESCALING 7.00 mm Round 10 rod coils for 5.882t E130597							
Schmelzanalyse		Cast Analysis				Analyse de Coulée					
%C	%Si	%Mn	%P	%S	%Cr	%Mo	%Ni	%Ti	%Nb	%Al	
0.0130	0.3470	0.7300	0.0280	0.0270	15.2900	0.2900	4.6900	0.0020	0.2700	0.0020	0.3010
%Co	%Cu	%Ni	%N	%V	%W	%As	%Cs	%Ta	%Pb		
0.1110	3.3780	0.0080	0.0310	0.0500	0.0300	0.0010	0.0020	0.0030	0.0002		
Mech und phys Eigenschaften		Mechanical and Physical Properties				Caractéristiques mécanique					
0.2%PS kPsi	1.0%PS kPsi	UTS kPsi	RA%	Korngröße Grain Size Taille de graine	Dehnung % Elongation % Allongement %	Harde Hardness Dureté	Hb				
114.580	134.305	137.061	65.1	8.5	1.0	300.00					
Decarb	Max	Batch Average	Batch Percentage	Cleanness							
				Intercrystalline Corrosion Test							
Additional Information Free from known Mercury or Radium Contamination Material free from welds Melting Practice:- EAF and AOD Solution annealed at 1800F +/- 25 for 1.5Hrs Material melted and rolled in Sheffield, England by Outokumpu Stainless Ltd. Ultrasonic to AMS2630 & Magnetic Particle to AMS 2303 both Pass No Chi or Sigma phase at 100x per ASTM E407 Macro and Micro structure OK per AMS 5643 Chemistry, melt practice, material integrity and capability of meeting spec. ASME/ASTM A584, AMS 5643, ASTM A484						EHSQ Manager Rob Charlesworth Date: 12/07/2013 This order was manufactured according to a Quality System registered to ISO 9001:2008 and approved by TUV Nord. Certificate Registration No. 44 100 115408					

Quality performed by non-destructive X-ray analysis.
 Dimensional checks were taken at the Outokumpu Stainless Ltd.
 factory in Sheffield, England by Outokumpu Stainless Ltd. and no dimensional
 deviations were found. The dimensions of the material were checked against the
 drawings and no deviations were found. The dimensions of the material were
 checked against the drawings and no deviations were found. The dimensions of the material were
 checked against the drawings and no deviations were found. The dimensions of the material were
 checked against the drawings and no deviations were found. The dimensions of the material were
 checked against the drawings and no deviations were found.

Herstellerangabe nach Abrechnung
 Auslieferer: Outokumpu Stainless Ltd., unterstreichen, daß das
 Material nicht mit Verunreinigungen oder unzureichenden Charakteristika beschädigt
 oder verfälscht wurde.
 Der Prüfling ist ein Drahtstab Durchmesser 15 mm, Länge ca. 1000 mm
 und verfügt über eine runde Form.
 Der Prüfling ist ein Drahtstab Durchmesser 15 mm, Länge ca. 1000 mm
 und verfügt über eine runde Form.
 Der Prüfling ist ein Drahtstab Durchmesser 15 mm, Länge ca. 1000 mm
 und verfügt über eine runde Form.
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 und verfügt über eine runde Form.
 Der Prüfling ist ein Drahtstab Durchmesser 15 mm, Länge ca. 1000 mm
 und verfügt über eine runde Form.

Qualitätserklärung nach Abrechnung
 Lieferant: Outokumpu Ltd., bestätigen, daß das
 Material keine Verunreinigungen oder unzureichende Charakteristika
 aufweist und die Dimensionen der geprüften Proben im Vergleich zu den
 technischen Zeichnungen übereinstimmen.
 Der Prüfling ist ein Drahtstab Durchmesser 15 mm, Länge ca. 1000 mm
 und verfügt über eine runde Form.
 Der Prüfling ist ein Drahtstab Durchmesser 15 mm, Länge ca. 1000 mm
 und verfügt über eine runde Form.
 Der Prüfling ist ein Drahtstab Durchmesser 15 mm, Länge ca. 1000 mm
 und verfügt über eine runde Form.
 Der Prüfling ist ein Drahtstab Durchmesser 15 mm, Länge ca. 1000 mm
 und verfügt über eine runde Form.

testcert v 1.11

MAIN LOT #

1402728

COMPONENT LOT #

SB30172

NAME

SPINDLE

CLERK: GV NC DS

TRI STAR METALS, LLC.
611 WEST LAMM ROAD
FREEPORT, IL 61032

An ISO 9001:2008 Registered Company

CERTIFICATE DATE: 6/11/13

CUSTOMER: COPPER & BRASS

ORDER#: 198267

CUSTOMER PO#: 5400179861-R05

MATERIAL: 17-4PH

DESCRIPTION: .130" X 12"

HEAT NUMBER: E130597

QTY. SHIPPED: 516 LBS

CONDITION: ANNEALED

PART #: XSSRD05808

CHEMICAL COMPOSITION

C	Mn	Si	S	P	Ni	Cr	Mo	Other Elements
.0130	.7300	3470	.0270	.0280	4.690	15.29	.2900	✓ Cu=.3378 Co=.1110 N=.0310 Ti=.0020 Nb=.2700 Al=.0020 B=.0010 Sn=.0080 V=.0500 W=.0300 As=.0010 Ca=.0020 Ta=.0030 Pb=.0002
✓	✓	✓	✓	✓	✓	✓	✓	

MECHANICAL VALUES

TENSILE (KSI)	YIELD (KSI)	ELONGATION (%)	REDUCTION OF AREA (%)	HARDNESS
140	121	8	69	279 HB

✓ H900 HT CAPABILITIES 900F FOR 1 HR AIR COOL

TENSILE (KSI)	YIELD (KSI)	ELONGATION (%)	REDUCTION OF AREA (%)	HARDNESS
200	198	11	55	406 HB

ADDITIONAL REMARKS:

This material meets the chemistry specifications for ASTM A564-04, RoHS COMPLIANT, SAE AMS 5643R ACTUAL CHEMISTRY/ACT. PHYSICAL. DFARS COMPLIANT.

MATERIAL IS FREE FROM MERCURY CONTAMINATION. EN10204 3.1.B
COUNTRY OF MELT: ENGLAND

MATERIAL IS MANUFACTURED IN THE UNITED STATES OF AMERICA

I hereby certify that this data is correct as contained in the records of this company.

QUALITY CONTROL REPRESENTATIVE:
QSD-007 REV. ORG. 4/17/2013

James P. Elliott-Quality Process Manager

Q. C. Review

Sig.
Date 10/18/13

Lot# 1386810

From: ThyssenKrupp Materials NA

Cust. AVIBANK MFG INC

CstAr

Wgt.: 103.000 LB

Del.: 2402762072

CstOr 729445

Date 10/18/2013

Outokumpu Stainless Ltd.
ASR Rod Mill
Stavenson Road
Sheffield, S9 3XG
Telephone: +44 (0) 114 242 1124
Fax: +44 (0) 114 242 2152



Pruf-Nr
Test certificate No
No du certificat

76914

In Accordance With EN 10204.3.1

Rechnungs-Nr Invoice/Cons No No de facture	Basis-Nr Customer Order No No de commande client	242584	NORM 17/4PH(830) Rev 08-13-11 (UNS S17400) COND. A	SPECIFICATION SOFTENED AND DESCALED 5.80 mm Round 14 rod coils for 9.253t	NORME V AV199387/01 SOFTENED AND DESCALED 5.80 mm Round 14 rod coils for 9.253t						
ADDRESS Tri Star Metals LLC 611 W.Lamm Rd Freeport, Illinois 61032 USA 61032			Werte Nr Werte Char. Nr No de caractére num.	Werte Nr Werte Char. Nr No de caractére num.							
			Lieferbedingungen Delivery Conditions Etat de livraison	Produkt Article Produit							
			Stückzahl Quantity Quantité	Stückzahl Quantity Quantité							
			Rechnungs-Nr Conf No No de Compte	E130597							
Schmelzanalyse		Cast Analysis				Analyse de Coulée					
%C	%Si	%Mn	%P	%S	%Cr	%Mo	%Ni	%Ti	%Nb	%Al	%B
0.0130	0.3470	0.7300	0.0280	0.0270	15.2900	0.2900	4.6900	0.0020	0.2700	0.0020	0.0010
%Co	%Cu	%Mn	%N	%V	%W	%As	%Cs	%Ta	%Pb		
0.1110	3.3780	0.0080	0.0310	0.0600	0.0300	0.0010	0.0020	0.0030	0.0002		
Mech und phys Eigenschaften		Mechanical and Physical Properties				Caractéristiques mécanique					
0.2%PS kPSI	1.0%PS kPSI	UTS kPSI	RA%	Korngröße Grain Size Taille de grain	Dehnung % Elongation % Allongement %	Härte Hardness Dureté					
120.237	133.435	134.308	65.7	6.0 7.5	1.2	325.00					
Decarb	Max	Batch Average	Batch Percentage	Cleanness				Intercrystalline Corrosion Test			
Additional Information Delta Ferrite -0.4% Rp0.2- 197.5kpsi UTS 200kpsi El 11% RoA 55% Hb 408401 Free from known Mercury or Radium Contamination Material free from welds Melting Practice- EAF and ADD Solution annealed at 1800F +/- 25 for 1.5hrs Material melted and rolled in Sheffield, England by Outokumpu Stainless Ltd. Ultrasonic to AMS2630 & Magnetic Particle to AMS 2303 both Pass No Chi or Sigma phase at 100x per ASTM E407 Micro and Micro structure OK per AMS 6643 Chemistry, melt practice, material integrity and capability of meeting spec. ASME/ASTM A564, AMS 6643, ASTM A464								<p>✓</p> <p>EHSQ Manager <i>Rob Charlesworth</i> Rob Charlesworth Datum 03/05/2013</p> <p>This order was manufactured according to a Quality System registered to ISO 9001:2008 and approved by TUV Nord. Certificate Registration No. 44 150 114408.</p>			
Finally certified by Outokumpu by X-ray analysis. The following properties values are shown for the material and meet the requirements of the specification. All Tests performed in accordance with the relevant standard test methods and results are available upon request. Any deviation from the specification is indicated in the certificate. We certify that the above stated is true and correct to the best of our knowledge and belief. Any deviation from the specification is indicated in the certificate. We certify that the above stated is true and correct to the best of our knowledge and belief. Any deviation from the specification is indicated in the certificate. We certify that the above stated is true and correct to the best of our knowledge and belief. Any deviation from the specification is indicated in the certificate. We certify that the above stated is true and correct to the best of our knowledge and belief. Any deviation from the specification is indicated in the certificate. We certify that the above stated is true and correct to the best of our knowledge and belief. Any deviation from the specification is indicated in the certificate. We certify that the above stated is true and correct to the best of our knowledge and belief. Any deviation from the specification is indicated in the certificate.								<p>✓</p> <p>Finalized by Quality Control Department of Outokumpu Stainless Ltd., Outokumpu, Outokumpu and Outokumpu Outokumpu are trademarks of Outokumpu Oyj. All rights reserved. This document is a copy of the original issued by Outokumpu Stainless Ltd. and may not be reproduced without written permission from Outokumpu Stainless Ltd. and the owner. Information contained in this document is confidential and may not be disclosed to third parties without prior written consent of Outokumpu Stainless Ltd. and the owner. This document is a copy of the original issued by Outokumpu Stainless Ltd. and the owner. Information contained in this document is confidential and may not be disclosed to third parties without prior written consent of Outokumpu Stainless Ltd. and the owner. This document is a copy of the original issued by Outokumpu Stainless Ltd. and the owner. Information contained in this document is confidential and may not be disclosed to third parties without prior written consent of Outokumpu Stainless Ltd. and the owner. This document is a copy of the original issued by Outokumpu Stainless Ltd. and the owner. Information contained in this document is confidential and may not be disclosed to third parties without prior written consent of Outokumpu Stainless Ltd. and the owner.</p>			
lastcert v 1.10											

mhausen/Krauss/Materials Lab NA

Cust. AVIBANK MFG INC
CstAr
Wgt.: 103.000 LB

Del.: 2402762072
CstOr 729445
Date 10/18/2013

John J. Gambatti

3659184
Order No: 09:27:02
Time


FRY STEEL COMPANY
Registered ISO 9001
13325 MOLETTE ST.
SANTA FE SPRINGS, CA 90670
(562) 802-2721

A08040
Cust. NO.: 749752
P.O. NO.:

CERTIFICATE OF COMPLIANCE

AVIBANK MFG INC
ATTN: ACCTS PAYABLE
P O BOX 9909
NORTH HOLLYWOOD CA 91609-1909

AVIBANK MFG
11500 SHERMAN WAY
***RECEIVING CLOSED 11:30-12**
NORTH HOLLYWOOD CA 91605-5827

10/04/13

QTY	-DESCRIPTION-		-ITEM CODE-	-HEAT NUMBER-
	CD 12L14 LEDLOY ASTMA 108 CHEM ONLY WHITE			
7	BARS 17/32"RD	12'RL	61310	AR294179
	BARS 5/8"RD	12'RL	61350	AR395409
	CUT 1 PC 15' FT REQD			
	BAR 7/8"RD	12'RL	61460	AR395386
	CUT 1 PC 14' FT REQD			
	✓ CF 2024 T4 AMS QQS 225/6 RED			
1	PC 3/16"RD	CUT 72"LG	84020	13051501-1
	CUT			
189	✓ BARS 5/16"RD	12'RL	84030	13M215 ✓
25	BARS 11/32"RD	12'RL	84033	9711060001

NOTICE

A COPY OF THE ORIGINAL MILL CERTIFICATION IS ATTACHED*

CHEMICALS & PHYSICALS ARE REPORTED THAT WILL MEET THE SPECIFICATIONS SHOWN ON THE CERTIFICATE.
EXCEPTIONS TO SPECIFICATIONS SHOULD BE SHOWN ON THE CERTIFICATION.

AUTOMATIC EXCEPTIONS TO THE SPECS LISTED ARE: LINE MARKING AND INSPECTION(I.E. MAG., SONIC, ETC.)

WE SUGGEST CONSULTING AN EXPERT ABOUT RELATED INSPECTION, PRIOR TO ALTERING THE MATERIAL FROM THE AS SHIPPED/RECEIVED CONDITION. "DEFECT FREE" MATERIAL CAN NOT BE GUARANTEED WITHOUT PRIOR INSPECTION APPROPRIATE TO APPLICATION.

NO WELD REPAIR HAS BEEN PERFORMED AND THIS MATERIAL IS FREE FROM MERCURY AND RADIUM
CONTAMINATION AT TIME OF SHIPMENT

The willful recording of false, fictitious or fraudulent statements on this document may result as a felony under federal statutes.
*WHEN APPLICABLE

- TO THE BEST OF OUR KNOWLEDGE MATERIAL IS CONFLICT MINERAL FREE -

MAIN LOT #

1402728, 1406596

COMPONENT LOT #

1373634

NAME

BUTTON

CLERK: GV NC DS

Q. C. Review

Sig. Nancy

Date 10/13/13

LOT# 1381674


Chip Sandoval

Q.C. MANAGER

5/16 RD

13M215

Aluminium Mill Certificate

Cert. No.: KAP628824

Customer: TUSKER INTERNATIONAL TRADING INC. FRY STEEL

Contract No.: US SM130929

Alloy Temper: 2024 T4 ✓

Container No.: CBHU5883403/20



Taishan City Kam Kiu Aluminium Extrusion Co. Ltd
Address: Daijiang County, Taishan, Guang Dong, China
Tel: (86) 7505438596 Fax: (86) 7505438173

✓ 2024-T4

Standards: QQA 225/6 REV E; AMS QQA 225/6 REV A; ASTM B 211 2012; AMS 4120 REV R

Shipment Date: Jul 20 2013

PO No: 47540 JK

Invoice No: M131492

Product Code	Die No	Specification	2024 Chemical Composition (%)										Tensile Strength		Yield Strength		Elongation				
			Heat No (Batch No.)	Cast No.	Si	Mg	Fe	Cu	Mn	Zn	Cr	Ti	Pb	Bi	Zr	Al	N/mm ²	ksi	N/mm ²	ksi	
64020	JE70281-1	DRAINED ROD	CFR 5/16 ✓	13M215	0.100	1.486	0.292	4.453	0.765	0.018	0.024	0.013	0.006	—	—	Rem.	557	81.0	523	76.0	11.8
64040	JE70281-2	DRAINED ROD	CFR 7/16	13M215	0.100	1.486	0.292	4.453	0.765	0.018	0.024	0.013	0.006	—	—	Rem.	481	70.0	423	61.0	10.8

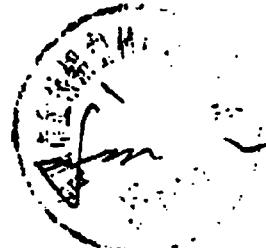
Remark:

Kam Kiu Aluminium Group hereby certifies that metal shipped under the above mentioned PO No., Contract No. and Container No has been inspected and tested, and found in conformance with the applicable specifications forming a part of the description set forth in Kam Kiu's Sales Contract. This Mill Test Certificate complies to 3.1 EN 10204.

Made By:

Waley

Checked By:



FRY STEEL CO. CERTIFIES THAT THIS IS
A TRUE COPY OF THE ORIGINAL MILL TEST
REPORT NOW ON FILE
RECEIVED AND INSPECTED

AUG 23 2013

By
SIMP BANKER - Q.C. MANAGER

Q. C. Review
Sig: Nancy
Date: 10/25/13

LOT# 1381674

Level 18, The Gardens North Tower, Mid Valley City, Lingkaran Syed Putra, 59200 Kuala Lumpur, Malaysia
E-mail: info@kamkiu.com Web Page: www.kamkiu.com

CFR 5/16

CFR 7/16

CERTIFICATE OF CONFORMANCE

JESSE'S PLATING

12229 MONTAGUE ST.
PACOIMA, CA 91331
818-899-4600 VOICE
818-899-0771 FAX

Date	Invoice #
12/27/2013	55304

Bill To	
AVIBANK MFG INC 11500 SHERMAN WAY NORTH HOLLYWOOD CA 91605	

AS9100 & ISO 9001 CERTIFIED

P.O. No.	Terms	Due Date	Rep	Ship Date	Ship Via	Project
753951	2% 15 Net 30	1/26/2014	JV	12/27/2013	Cust. Pickp	
Qty	Item	Description				
2.000	73-4AT MIL-A-8625F	REV F BUTTON ANODIZE PER MIL-A-8625F TYPE II CLASS 2 BLUE				


 Q. C. Review
 Sig. *N. Mugh*
 Date *12/27/13*
LOT# 1402311

CERT REVIEW

MAIN LOT #	<i>1402728, 1406596</i>
COMPONENT LOT #	<i>1373634</i>
NAME	<i>BUTTON</i>
CLERK: GV NC DS	

WE HEREBY CERTIFY THE ABOVE PARTS ARE
PROCESSED IN ACCORDANCE WITH APPLICABLE
SPECIFICATIONS. TEST REPORTS ARE ON FILE.
ANY DISCREPANCY MUST BE REPORTED WITHIN 24
HOURS.

BY:  JORGE A VILLAGRAN
 TITLE:  Q.A. MANAGER 



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO26870

LINE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MPR DATE	EXP DATE
005	50	EA	MS21073LS		51767	PAOLO ASTORI	A3856		



Jason Lewis
Vice President of Quality

12/22/14



PAOLO ASTORI SPA
 Via Mirabella, 9 - Maggiate Superiore
 28013 Gattico (NO) - ITALY
 Tel. (+39) 0322 838847
 Fax (+39) 0322 880198
 Web: www.paoloastori.com



CERTIFICATE OF CONFORMANCE

Nº 484

Date 17/01/2014 Pag. 1 / 1

Purchased by:

B/E AEROSPACE INC.CONSUMABLES MANAG
 9835 NW 14TH ST.
 MIAMI - FL
 USA

Shipped to:

B/E AEROSPACE INC.CONSUMABLES MANAG
 9835 NW 14TH ST.

33172 MIAMI - FL US

This is to certify that goods listed below have been inspected in our plant and are up to your orders and to the specifications of the drawings mentioned therein.

Country of origin is ITALY.

Pos.	Part Number	Purchase Order	PO Date	Quantity	U.M.	Batch #	Cure Date Expiry Date
1	MS21073L5 RELEASE X8HR0PPM57(Rev. REV2) - NAS698A5	OPPM57	11/06/2013	2539	N	51767	

SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto
 150 lbs sped con fedex ground, account #0331-0149-0, mark:collect; se sopra 150 lbs sped con fedex economy, account #018757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA - Complies with DFARS 252.225-7014.
 Agusta-Westland Q500 approval # A/0047

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The seller manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, at seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequent user beyond the invoiced value of the parts in subject.



COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= AS/EN/JISQ 9100 =

QUALITY CONFORMANCE INSPECTION REPORT

Sede legale: via Mirabella , 9 - MAGGIATE Sup. - 28013 GATTICO (NO) ITALY TEL: 0322- 838847 FAX: 0322-880198 www.paoloastori.com

STATEMENT OF CONFORMITY

THIS IS TO CERTIFY THAT PARTS HAVE BEEN PRODUCED, CONTROLLED AND ACCEPTED ACCORDING TO THE REQUIREMENTS OF THE APPLICABLE SPECIFICATION CALLED BY THE PURCHASE ORDER AND/OR THE APPLICABLE STANDARD DRAWING.
MATERIAL, HEAT AND SURFACE TREATMENTS AND MANUFACTURING PROCESSES ARE THE SAME AS THOSE USED FOR THE QUALIFICATION APPROVAL.
SAMPLES SUBJECT OF ALL TESTS WERE BEEN SELECTED AT RANDOM FROM THE PRODUCTION BATCH COVERED BY THIS DOCUMENT. COUNTRY OF ORIGIN ITALY.
THIS REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF PAOLO ASTORI SPA.


C
2A

Signature
Quality Representative

CUSTOMER	<u>see attached COC</u>
P.O.	<u>see attached COC</u>
PART NO.	<u>MS21073L5 per NASM21073 REV SEE COC / NAS698AS</u>
ASTORI CODE	<u>10AD25A503M11</u>
DESCRIPTION	<u>NUT, SELF-LOCKING, PLATE, CORNER</u>
PROCUREMENT SPEC.	<u>NASM25027</u>
BATCH NO.	<u>51767</u>
BATCH QUANTITY	<u>2,600</u>
QUANTITY DELIVERED	<u>see attached COC</u>

Description of component	Raw material specification	Raw material Batch no.	Heat N°	Heat treatment performed	Raw material in accordance with
NUT	SAE1042	-2421	4981	hardening & tempering	ASTM A29
OTHER					
OTHER					
OTHER					

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The seller's manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, as seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequent user beyond the invoice value of the parts in subject.



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SUMMARIZED TEST RESULTS

(all tolerances are expressed in metric and imperial units - test results are recorded as read on the MTE)

Characteristic	Inspection or test to be Performed	Applicable or not	Sample Inspected	Inspection Media	Test Result	Note
Examination of product:						
Design	Verify the design of the nut	A	ALL	VISUAL	OK	
Self-locking device (Major A)	Examination	A	50	VISUAL	OK	see table 1
Thread fit (Major B)	Go-no go gauge - test bolt application	A	20	BOLT GO-GAGE	OK	see table 2
Bearing surface conditions and squareness (Major B)	Check surface roughness and orthogonality error	A	20	OPTICAL COMPARATOR	OK	see table 3
Surface finish, plating or surface treatment (Major B)	Verify the compliance of the surface treatment and condition	A	20	VISUAL	OK	see table 4
Rivet hole location and alignment (Major B)	Measure the position and the distance	A	20	DIGITAL CALIPER	OK	see table 5
Height of nut (Major B)	Measure the dimension	A	20	DIGITAL CALIPER	OK	see table 6
Loose or hanging burrs (Minor)	Verify the presence of any kind of burrs	A	8	VISUAL	OK	see table 7
All other dimensional characteristics not covered above (Minor)	Measure all dimensions with reference on the applicable standard	A	8	DIGITAL CALIPER	OK	see table 8 see attachment
Axial Tensile strength (Table IX)	Verify if the nuts withstand the minimum axial strength	A	10	LOAD MACHINE	OK	see table 9
Locking torque	See below					
Max locking torque (Table IX)	Measure and record the torque value for 1st,7th,15th of each nut tested	A	10	LOAD MACHINE	OK	see table 10
Min breakaway torque (Table IX)	Measure and record the torque value for 1st,7th,15th of each nut tested	A	10	TORQUE METER	OK	see table 11
Torque out (Table IX)	Torque out value must be not less than the requested value (attribute)	N/A	-	TORQUE METER	OK	see table 12
Push out (Table IX)	Push out value must be not less than the requested value (attribute)	A	10	LOAD MACHINE	OK	see table 13
Discontinuities (Major B)	No cracks at all - Depths of discontinuities not more than values	A	20	VISUAL	OK	see table 14
23-hour stress embrittlement (10 pcs)	Evidence of complete absence of stress embrittlement (attribute)	A	10	VISUAL	OK	see table 15
Magnetic permeability (Table IX)	Cres nuts must have less a magnetic permeability less than 2.0 in air for a field strength of H=200	N/A	-	LOW MU INDICATOR	OK	see table 16
Inspection of packaging (All boxes)	Verify the correctness of packaging	A	ALL	VISUAL	OK	see table 17





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Table 1 - Self locking device – examination (control by attribute : ok/not ok)

Table 2 – Thread fit (control by attribute : go-no-go gage ok/not ok – belt application)

Table 3- Bearing surface max. squareness deviation admitted	0.15 mm (0.0059 in)	max. measured	0.06 mm (0.0023 in)
Surface roughness max.	value admitted	3.2 (125 micro in)	max. measured
			1.6 (63 micro in)

Table 4 - Surface finish, plating or surface treatment (control by attribute : ok/not ok)

Actual finishing CADMUM PLATED IN ACC WITH AMS-QQ-P-416 TYPE II CLASS 2
LUBRICATED IN ACC WITH AS5272

Table 5—River hole location and alignment.

Table 3 - Rivet hole location and dimensions

Table 6—Height of nut Dimension requested 8.33 mm max (0.328 in max) max. range measured 7.59 mm (0.299 in)



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Table 7 - Loose or hanging burrs (control by attribute by means visual examination ok/not ok)



OK																			
----	----	----	----	----	----	----	----	--	--	--	--	--	--	--	--	--	--	--	--

Table 8 - All other dimensional characteristics not covered above (reference on the tolerances of the applicable standard dwg)



OK																			
----	----	----	----	----	----	----	----	--	--	--	--	--	--	--	--	--	--	--	--

Table 9- Axial Tensile strength - Minimum load requested 32883 N (7399 lb) max. measured 33900 N (7628 lb)



33900	33900	33900	33900	33900	33900	33900	33900	33900	33900	33900	33900								

Table 10-Max locking torque -
Max. installation torque admitted 6.78 Nm (60.01 in-lb) max. measured 6.14 Nm (54.35 in-lb)



6.00	6.04	5.97	5.94	6.09	5.92	6.14	5.98	5.91	6.11										
4.00	4.04	3.97	3.94	4.09	3.92	4.14	3.98	3.91	4.11										
2.80	2.84	2.77	2.74	2.89	2.72	2.94	2.78	2.71	2.91										

Table 11- Min breakaway torque -
Min. breakaway torque requested 0.74 Nm (6.55 in-lb) min. measured 2.11 Nm (18.68 in-lb)



5.80	5.84	5.77	5.74	5.89	5.72	5.94	5.78	5.71	5.91										
3.60	3.64	3.57	3.54	3.69	3.52	3.74	3.58	3.51	3.71										
2.20	2.24	2.17	2.14	2.29	2.12	2.34	2.18	2.11	2.31										

Table 12-Torque out-Minimum requested value _____ (control by attribute :ok/not ok) N/A

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Table 13- Push out -Minimum requested value 556 N (125 lb) (control by attribute :ok/not ok) 610 N (137 lb)



OK																			



QUALITY CONFORMANCE INSPECTION REPORT

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Table 14—Discontinuities—No cracks at all—no discontinuities with depth more than 0.13 mm (control by attribute: ok/not ok)

Table 15 - 23-hour stress embrittlement (control by attribute : ok/not ok)

OK OK OK OK OK OK OK OK OK OK

Table 16- Magnetic permeability - (control by attribute : ok/not ok)N/A

A 10x10 grid of squares. Every second square in each row is shaded with diagonal lines, creating a pattern of alternating shaded and unshaded squares across the entire grid.

Table 17- Inspection of packaging - (control of each package unit of the shipment : ok/not ok with respect to the order requirements)

SAMPLING TABLES

TABLE FOR MAJOR A CHARACTERISTICS

BATCH SIZE	SAMPLE SIZE	AN	RN
<35,000	50	0	1
35,000<Q<150,000	80	0	1
150,000<Q<500,000	80	0	1

TABLE FOR MAJOR B CHARACTERISTICS

BATCH SIZE	SAMPLE SIZE	AN	RN
<35,000	20	0	1
35,000<Q<150,000	32	0	1
150,000<Q<500,000	32	0	1

TABLE FOR MINOR CHARACTERISTICS

BATCH SIZE	SAMPLE SIZE	AN	RN
<35,000	8	0	1
35,000<Q<150,000	13	0	1
150,000<Q<500,000	13	0	1

TABLE IX

BATCH SIZE	SAMPLE SIZE	AN	RN
<50,000	10	0	1
50,000<Q<100,000	15	0	1
Q>100,000	27	0	1



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

P.O. Box 025263, Miami, FL 33102-5263 • Tel: 305.925.2600 • Fax: 305.507.7191
Plant Location: 10000 N.W. 15th Terrace, Miami, FL 33172 • SITA: MIAMMCR
www.beconsumables.com

Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

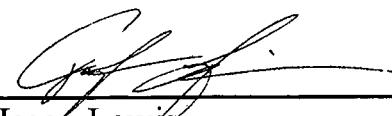
Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO26870

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
001	200	EA	MS21060L3K		5277262-000	ALCOA KAYNAR FULLERT	15653		



Jason Lewis
Vice President of Quality

12/22/14

**Alcoa
Fastening
Systems**



Packing Slip

Packing Slip: 9947897292

Page: 1

Bill To: 5574
M & M AEROSPACE
HARDWARE, INC.
P.O. BOX 025263
MIAMI FL 33102-5263

Ship To: (1)
M & M AEROSPACE
10000 N.W. 15TH TERRACE
MIAMI FL 33172

From:
ALCOA FASTENING SYSTEMS
AEROSPACE PRODUCTS
FULLERTON OPERATIONS
800 SOUTH STATE COLLEGE
FULLERTON CA 92831
USA

Notice to Subsequent Purchaser or Repacker.
These articles are imported. The requirements of 19 U.S.C.
1304 & CFR part 134 provide that the articles or their
containers must be marked in a conspicuous place as
legibly, indelibly & permanently as the nature of the article or
container will permit, in such a manner as to indicate to an
ultimate purchaser in the United States, the English name of
the country of origin of the article.

Order Contact:

Pack Date	Order #	Cust PO	Ship Via	Weight Pkgs #
03/11/08	F284673	OEB586		

Line/Rel	Item #	U/M	Qty Ordered	Qty To Pack
1-1	BG5040	PC	100.0000	67.080
	F5001-3BC	PC		

CERTIFICATION

C/I: MS21060L3K *Rev. New*

Cust Date: 11/25/08

PO Item #:

Key Date: 12/13/07

*** TSO C-148 APPVD PART. TSO LABEL REQ'D ***

Lot: 5277262-000

COO:MEXICO

Waybill:

ECCN:9A991 Schedule-B Number:7318.16.0000

The export classification appears above. You are
responsible for all related export license
requirements.

CHEM & PHYS & MFG C OF C REQ
DUAL CERT TO F5001-3BC & NAS686C3MK *Rev. 13*
BILL LINE 1,2,3 & 4 TOGETHER

BUYER: CLAUDIA
5-592-5155

PHONE: 30

CERTIFICATE OF CONFORMANCE

This is to certify that all items noted above were produced in conformance with
the contract, drawing specifications, and other applicable documents. All
required process certifications, chemicals and physical test reports are on file
subject to examination. This document must not be reproduced except in
full and relates only to the items tested.

ALCOA GLOBAL FASTENERS, INC.

CHRISTOPHER FREDRICKSON
Quality Manager
Fullerton Operations

ALL CLAIMS REGARDING THIS ORDER MUST BE REPORTED TO SELLER PROMPTLY. CLAIMS FOR CREDIT OR REPLACEMENT OF PARTS MAY BE LIMITED TO THOSE PARTS FOR WHICH
TRACEABILITY HAS BEEN MAINTAINED BY THE BUYER. THE SELLER'S MANUFACTURING LOT IDENTIFICATION NUMBER AND RETURN MERCHANDISE AUTHORIZATION (RMA) NUMBER MUST
ACCOMPANY ALL RETURNS. ANY CLAIM BASED ON AN ALLEGED DISCREPANCY IN QUANTITY, QUALITY, ETC. BETWEEN THE GOODS ACTUALLY SHIPPED AND/OR DELIVERED UNDER THESE
DOCUMENTS AND THE DESCRIPTION THEREOF IN THESE DOCUMENTS, MUST BE MADE IN WRITING TO SELLER NOT LATER THAN NINETY (90) DAYS AFTER THE SHIPPING DATE APPEARING
HEREON. FOR ITEMS CERTIFIED TO BPS-N-70, ALLOY VERIFICATION HAS BEEN PERFORMED ON PARTS WITH A DATE OF MANUFACTURE ON OR AFTER JANUARY 1, 2001. THE RECORDING OF
FALSE, FICTITIOUS, OR FRAUDULENT STATEMENTS OR ENTRIES ON THE CERTIFICATE MAY BE PUNISHED AS A FELONY UNDER FEDERAL LAW.

CUSTOMER'S COPY



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

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FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO26870

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REP#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
002	300	EA	MS9321-09		1029-6/4/14	MOELLER MFG	56009		


Jason Lewis
Vice President of Quality

12/22/14



MOELLER MFG. & SUPPLY, INC.
 805 EAST CERRITOS • ANAHEIM, CA 92805
 (714) 999-5551 • FAX (714) 999-5970
<http://www.moellermfg.com>
 cage code: 58009

SHIPPER NO.: 60605

CERTIFICATION

PACKING LIST

S B/E AEROSPACE, INC
 O CONSUMABLES MGMT
 D PO BOX 025263
 TO MIAMI FL 33102-5263
 Customer #: B/E AER-FL

S B/E AEROSPACE CONSUMABLES
 H MANAGEMENT
 P 9835 NW 14TH ST
 TO MIAMI FL 33172
 P.O. #: 0XML49

DATE ORDER REC'D.	ORDER NO.	COMMENTS			SHIPPED VIA	TERMS	DUE
6/3/2014	0XML49				FEDXFRTECO	1%-10/N-30	8/4/2014
ITEM	ORDERED	SCHEDULED	SHIPPED	PART NUMBER/DESCRIPTION			NET WT.
01	250,000	125,000	125,000 SG	MS9321-09 REV. N/C LOT 1029- <u>6/4/14</u> SCHEDULED DELIVERY FULL CERTS DFAR 252.225-7009 AA.1BCHPUV	{N} 641 BOX1 724 782	1 BOX 5,000 6 BOXES 20,000 EA	9.73 38.60

MANUFACTURED IN THE U.S.A.

MOELLER MFG. & SUPPLY, INC. - PACKING LIST & CERTIFICATION

WE CERTIFY THAT THE MATERIAL ON THIS ORDER CONFORMS IN ALL RESPECTS TO THE CURRENT APPLICABLE GOVERNMENT AND/OR MANUFACTURER'S SPECIFICATIONS.

1. ALL ITEMS ABOVE ARE MANUFACTURED IN ACCORDANCE WITH THE MATERIAL AND PROCESSING SPECIFICATIONS OF THIS ORDER. WE ALSO CERTIFY THAT THESE PARTS HAVE NOT COME IN CONTACT WITH MERCURY WHILE IN OUR POSSESSION.
2. THE GOODS COVERED BY THIS INVOICE WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF THE FAIR LABOR STANDARD ACTS OF 1938, AS AMENDED. ALL CLAIMS FOR ERRORS OR SHORTAGES MUST BE MADE WITHIN 10 DAYS AFTER RECEIPT OF GOODS. NO GOODS TO BE RETURNED WITHOUT WRITTEN AUTHORIZATION. ALL CLAIMS FOR DEFECTIVE MATERIAL MUST BE FILED WITHIN 30 DAYS OF SHIPMENT TO RECEIVE CONSIDERATION. WE DO NOT ASSUME FINANCIAL RESPONSIBILITY FOR LIABILITY FROM THE USE OF PRODUCTS SOLD, OTHER THAN REPLACEMENT VALUE OF THE PRODUCTS SOLD, IF CLAIMED WITHIN THE SPECIFIED TIME LIMIT ABOVE.
3. PARTS ARE TO BE CONSIDERED ITAR EXEMPT OR DUAL PURPOSE UNLESS OTHERWISE STATED.

BY _____
 DARIN MOELLER, QUALITY

RECEIVED IN GOOD CONDITION BY DATE	7/21/14	PACKED BY SG	BAGS	CARTONS 7	GROSS WT. 251



B/E Aerospace, Inc.

Page: 1 of 1

CONSUMABLES MANAGEMENT

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Shipped From: 10000 NW 15 TERRACE, MIAMI, FL 33172

Material Certification

The items set forth on the purchase order referred to below have been visually inspected and the dimensions thereof have been measured by us, and based on the aforesaid, as well as the representation made to us by the manufacturers of the items subject of such purchase order, we hereby certify that such items are in conformity with all current governmental and manufacturer's requirements, specifications, drawings, and conform to the purchase order requirements. Said items are in new condition and have not been obtained from any U.S. Government or Military source and are traceable to B/E Aerospace, Inc.

FIRM: DART AEROSPACE LTD

PURCHASE ORDER#: PO26870

LNE#	QUANTITY	U/M	PART-NUMBER	CUST REF#	LOT-NUMBER	MANUFACTURER	CCODE	MFR DATE	EXP DATE
004	50	EA	MS21069L3		60363	PAOLO ASTORI	A3856		


Jason Lewis
Vice President of Quality

12/22/14



PAOLO ASTORI SPA

Via Mirabella, 9 - Maggiate Superiore
28013 Gattico (NO) - ITALY
Tel. (+39) 0322 838847
Fax (+39) 0322 880198
Web: www.paoloastori.com



CERTIFICATE OF CONFORMANCE

N° 9606

Date 17/10/2014

Pag. 1 / 1

Purchased by:

B/E AEROSPACE INC.CONSUMABLES MANAG
10000 NW 15TH TERRACE
MIAMI - FL
USA

Shipped to:

B/E AEROSPACE INC.CONSUMABLES MANAG
9835 NW 14TH ST.

33172 MIAMI - FL US

This is to certify that goods listed below have been inspected in our plant and are up to your orders and to the specifications of the drawings mentioned therein.

Country of origin is ITALY.

Pos.	Part Number	Purchase Order	PO Date	Quantity	U.M.	Batch #	Cure Date Expiry Date
1	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	OKJE83/3	17/08/2012	4955	N	60363	
2	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	OKJE83/3	17/08/2012	10000	N	60363	
3	MS21069L3 RELEASE W0170KJE83(Rev. REV1)	OKJE83/3	17/08/2012	10000	N	60363	

- SUPPLIES RELEASED IN ACCORDANCE WITH REQUIREM. OF BAE/AG/SC1 PART 3- APPROVAL # BAE/AG/30631/MAA AND WITH AIRBUS SAS APPROVAL # 204788 Se sotto
150 lbs sped con fedex ground, account #0331-0149-0,mark:collect;se sopra 150 lbs sped con fedex economy,account #018757

Airbus approval # 204788 - BAE Approval # BAE/AG/30631/MAA - complies with DFARS 252.225-7014.
Agusta-Westland Q500 approval # A/0047

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The seller manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, at seller option, and in no case is to exceed the invoice value of such goods. Under no circumstance will seller be liable for damages or cost incurred by buyer or subsequent user beyond the invoiced value of the parts in subject.



PAOLO ASTORI

PAOI AUTOBLOCCANTI & MINUTERIE METALLICHE
per COSTRUZIONI AERONAUTICHE

PAOLO ASTORI SpA - Via Mirabella, 9
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Tel. +39 0322 838847 - Fax +39 0322 880198
www.paoloastori.com

COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= EN 9100:2003 =

Capitale Sociale € 120.000,00 int. vers.
Cod. Fisc., Part. I.V.A. n. R.I. Novara 00111940037
C.F.A. Novara 48690 - Albo Imp.-Exp NO 009381

Certificate of Test

Manufacturer: Paolo Astori spa, Via Mirabella 9, 28013 Gattico (NO), ITALY

Report number : 681

Date performed: 2014-10-13

Inspector: PAMELA , CALABRESE

Procurement spec: NASM25027
NUT, SELF-LOCKING, 250F, 450F, AND 800F

Part code: 1OAD25A302M11

Part number: MS21069L3

Product standard: MS21069 (11/2010)

Revision level: NUT, SELF-LOCKING, PLATE, TWO LUG, REDUCED RIVET SPACING, LOW HEIGHT, STEE
see certificate of conformity

Batch number: 60363

Batch quantity: 25000

Expiry date: Not applicable

Manufacturing date: 2014-10-09

Additional cross-references: NAS697A3

Customer: see certificate of conformity

Purchase order: see certificate of conformity

Quantity delivered: see certificate of conformity

1 Statement of Conformity

This is to certify that parts have been produced, controlled and quality assured according to the requirements of the applicable specification requested by the purchase order and/or the applicable standard drawing. Material, heat and surface treatments and manufacturing processes are the same as those used for the qualification approval. Samples for testing have been randomly selected from the production batch covered by this document. Country of origin is Italy. Unless otherwise stated, all special processes have been undertaken by Paolo Astori. This report shall not be reproduced except in full, without the written approval of Paolo Astori spa.

2 Disclaimer

All claims regarding the parts in subject must be reported to seller promptly. Credit or replacement of parts may be limited to those parts for which traceability has been maintained by the buyer. The seller's manufacturing lot identification number and return authorization (RMA) must accompany all returns. Any discrepancy claimed by the Customer must be made in writing to seller not later than ninety (90) days after the shipping date. The liability of seller on parts found to be defective is limited to replacement or rework of such goods, at seller option, and in no case is to exceed the invoiced value of such goods. Under no circumstances will seller be liable for damages or costs incurred by buyer or subsequent user beyond the invoice value of the parts in subject.



PAOLO ASTORI

DADI AUTOMOBILI E MINUTERIE METALLICHE
per COSTRUZIONI AERONAUTICHE

COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= EN 9100:2003 =

Capitale Sociale € 126.000,00 int. vers.
Cod. Fisc. Part. I.V.A. e R.I. Novara C011194C037
I.E.A. Novara 4H650 - Albo Imp. Esp. NO 099981

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3 Components and raw materials

Component name	Component batch	Material batch	Heath	Material spec
		-3024	000B1669	SAE1042 (MEQU13/01C)

4 Special processes

Component name	Process	Specification
NUT	CAD PLATING	AMS-QQ-P-416C
NUT	LUBRICATION	NASM25027/NAS356

5 Hardness

Component name	min hardness	max hardness	avg hardness
NUT	80.40 HR15N	81.60 HR15N	81.01 HR15N

6 Final inspection measurements

6.1 SELF LOCKING DEVICE EXAMINATION

Unit of measure: ATTR

OK									
OK									

Number of samples tested: 20

6.2 THREAD FIT

Unit of measure: ATTR

OK							
OK							

Number of samples tested: 8

6.3 BEARING SURFACE SQUARENESS

Unit of measure: mm (inch)

0.08 (0.0031)	0.04 (0.0016)	0.06 (0.0024)	0.07 (0.0028)	0.06 (0.0024)	0.04 (0.0016)	0.06 (0.0024)	0.06 (0.0024)
------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------

Number of samples tested: 8

	Min	Max	Avg
Allowed:		0.13	
Found:	(-)	(0.0051)	
	0.04 (0.0016)	0.08 (0.0031)	0.06 (0.0023)



PAOLO ASTORI

DADI AUTOBLOCCANTI e MINUTERIE METALLICHE
PER COSTRUZIONI AERONAUTICHE

COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= EN 9100:2003 =

Copiale Soc.als C 120000000 int. vers.
Cod. Fisca. Part. I.V.A. e R.I. Novara 03111040057
F.R. A Novara 18620 - Atto Imp. Exp NO 050041

PAOLO ASTORI SpA - Via Mirabella, 9
28013 MAGGIATE SUP. - GATTICO (NO) - ITALY
Tel. +39 0322 888817 - Fax +39 0322 880198
www.paolostori.com

6.4 SURFACE FINISH, PLATING OR SURFACE TREATMENT

Unit of measure: ATTR

OK							
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Number of samples tested: 8

6.5 RIVET HOLE LOCATION AND ALIGNEMENT

Unit of measure: mm (inch)

12.72 (0.5008)	12.72 (0.5008)	12.72 (0.5008)	12.70 (0.5000)	12.71 (0.5004)
12.72 (0.5008)	12.71 (0.5004)	12.71 (0.5004)		

Number of samples tested: 8

	Min	Max	Avg
Allowed:	12.65 (0.4980)	12.75 (0.5020)	
Found:	12.70 (0.5000)	12.72 (0.5008)	12.71 (0.5005)

6.6 HEIGHT OF NUT

Unit of measure: mm (inch)

5.42 (0.2134)	5.41 (0.2130)	5.41 (0.2130)	5.40 (0.2126)	5.38 (0.2118)
5.40 (0.2126)	5.40 (0.2126)	5.41 (0.2130)		

Number of samples tested: 8

	Min	Max	Avg
Allowed:	-	6.30 (0.2480)	
Found:	5.38 (0.2118)	5.42 (0.2134)	5.40 (0.2127)

6.7 LOOSE OR HANGING BURRS

Unit of measure: ATTR

OK							
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Number of samples tested: 8



PAOLO ASTORI

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COMPANY WITH QUALITY MANAGEMENT
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= EN 9100:2003 =

Capitale Sociale € 120.000,00 Int. vers.
Cond. Fisc. Part. I.V.A. e R.I. Novara CO111940037
P.I.E.A. Novara 48560 - Albo Imp.-Exp. N° 059081

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6.8 ALL OTHER DIMENSIONAL CHARACTERISTICS NOT COVERED

Unit of measure: ATTR

OK OK OK

Number of samples tested: 3

6.9 AXIAL TENSILE STRENGTH

Unit of measure: N (lbf)

12100.00 (2720.1882)	12050.00 (2708.9478)	12000.00 (2697.7073)	12100.00 (2720.1882)	11950.00 (2686.4669)
11550.00 (2596.5433)	11900.00 (2675.2264)	11600.00 (2607.7837)	11850.00 (2663.9860)	11650.00 (2619.0242)

Number of samples tested: 10

	Min	Max	Avg
Allowed:	10946.00 (2460.7587)	- (-)	
Found:	11550.00 (2596.5433)	12100.00 (2720.1882)	11875.00 (2669.6062)

6.10 MAX LOCKING TORQUE 1st CYCLE

Unit of measure: Nm (lbf-in)

1.38 (12.2140)	1.40 (12.3910)	1.42 (12.5681)	1.40 (12.3910)	1.36 (12.0370)
1.40 (12.3910)	1.38 (12.2140)	1.46 (12.9221)	1.48 (13.0991)	1.34 (11.8600)

Number of samples tested: 10

	Min	Max	Avg
Allowed:	- (-)	2.03 (17.9670)	
Found:	1.34 (11.8600)	1.48 (13.0991)	1.40 (12.4087)



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COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DHV
= EN 9000:2003 =

Capitale Sociale €. 120.000,00 Int. vers.
Cred. Fisc., Part. I.V.A. n. R.I. Novara 00111940037
F.I.E.A. Novara 48560 - Albo Imp.-Cap NO 0090681

6.14 MIN.BREAKAWAY TORQUE 7th CYCLE

Unit of measure: Nm (*lbf-in*)

0.44 (3.8943)	0.46 (4.0713)	0.48 (4.2484)	0.46 (4.0713)	0.42 (3.7173)	0.46 (4.0713)	0.44 (3.8943)	0.52 (4.6024)	0.54 (4.7794)	0.40 (3.5403)
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Number of samples tested: 10

	Min	Max	Avg
Allowed:	0.23 (2.0357)	- (-)	
Found:	0.40 (3.5403)	0.54 (4.7794)	0.46 (4.0890)

6.15 MIN.BREAKAWAY TORQUE 15th CYCLE

Unit of measure: Nm (*lbf-in*)

0.42 (3.7173)	0.44 (3.8943)	0.46 (4.0713)	0.44 (3.8943)	0.40 (3.5403)	0.44 (3.8943)	0.42 (3.7173)	0.50 (4.4254)	0.52 (4.6024)	0.38 (3.3633)
------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------	------------------

Number of samples tested: 10

	Min	Max	Avg
Allowed:	0.23 (2.0357)	- (-)	
Found:	0.38 (3.3633)	0.52 (4.6024)	0.44 (3.9120)

6.16 PUSH-OUT

Unit of measure: N (*lbf*)

539.00 (121.1720)	510.00 (114.6526)	520.00 (116.9007)	500.00 (112.4045)	500.00 (112.4045)
530.00 (119.1487)	500.00 (112.4045)	539.00 (121.1720)	510.00 (114.6526)	520.00 (116.9007)

Number of samples tested: 10

	Min	Max	Avg
Allowed:	445.00 (100.0400)	- (-)	
Found:	500.00 (112.4045)	539.00 (121.1720)	516.80 (116.1813)



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COMPANY WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
= EN 9100:2003 =

Capitale Sociale € 120.000,00 int. vers.
Cod. Fisc. Part. IVA e P.I. Novara C011194C0017
F.E.A. Novara 08500 - Albo Imp. Exp NO 009081

6.17 DISCONTINUITIES

Unit of measure: ATTR

OK											
OK											
OK											
OK	OK										

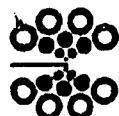
Number of samples tested: 32

6.18 23-HOURS STRESS EMBRITTLEMENT

Unit of measure: ATTR

OK											
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Number of samples tested: 10



GIUSEPPE & F.LLI BONAITI S.p.A.
NASTRO E FILO DI ACCIAIO

Sede legale e amministrativa:
Piazza Verdi, 3/A
23801 CALOZZOCORTE (LC)
tel. 0341 633080 fax 0341 633081
internet: www.bonaitigioseppo.it
e-mail: info@bonaitigioseppo.it

CERTIFICATO DI CONTROLLO

(Tipo 3.1 secondo norma EN 10204:2004)

Sped.

PAOLO ASTORI SPA
VIA MIRABELLA 9
28013 MAGGIATE SUPERIORE NO

Vs.Ord. 21784 del 21/11/12

Ns.Con. 32/002215-02 del 21/11/12

DDT N. 446 del 31.1.13

Nr. 919 del 29/01/13

PRODOTTO Cod.

NASTRO C45E BAR1042 MM.21,0X0,86

PAOLO ASTORI SPA

- 3024 -

RAW MATERIAL LOT

RISULTATI PROVE

FOGLIO DI LAVORAZIONE FDL LA 2012 005106

Documento N.

Prova
RESISTENZA A TRAZIONE N/MM2 480
ALLUNGAMENTO % A80MM. 27,75
CARICO UNIT.SCOST.PROP. RPO.2 337,00
PIEGAMENTO TRASVERSALE 180° OK
Prova
RESISTENZA A TRAZIONE N/MM2 499
ALLUNGAMENTO % A80MM. 27,82
CARICO UNIT.SCOST.PROP. RPO.2 350,00
PIEGAMENTO TRASVERSALE 180° OK

Certifichiamo che il prodotto è conforme alle richieste della conferma d'ordine.

LABORATORIO PROVE

L. Panzeri

ANALISI COLATA

(Verifica effettuata dal fornitore materia prima)

Colata 000B1669 L. 40554 / 001 . E

C	Mn	Si	P	S	Al	Cr	Cu	Ni	Mo	V
0,463	0,663	0,242	0,008	0,003	0,032	0,249	0,026	0,055	0,007	0,003

MASS REV.2



Test report 2.2 DIN EN 10204 (A02)				No. (A03) 1088579 Page 1/1 Date 21.05.2012
No. (A07) 32/90/000160 Purchaser Giuseppe & Frat. Bonaiti SpA (A08) 23081 CALOLZIOCORTÈ (LC) ITALIEN	03.02.2012	No. (A07) 32/90/000160 Customer Giuseppe & Frat. Bonaiti SpA (A08) 23081 CALOLZIOCORTÈ (LC) ITALIEN		
Product Hot rolled wide strip (B01)			Works order No. 0001164101 (A08)	
Steel grade and terms of delivery C 45 (B02-B04)	DIN EN 10083 T.2/10.2006 CHI/2451 Rev.3-15.06.11 DIN EN 10051:2011-02 1		Dispatch date No. 0083730467 19.05.2012 Inspection WS (A08)	

Material data (B01-B11)

Item	Quantity (B01)	Product No. (B07)	Heat No. (B07)	Cond. of delivery (B04)	Thickness x Width (B09-B11)	mm x mm
01	3		000B1669	U	2,00 x 1300,0	
Σ	3	Weight (B12)	70.200	tgs	U: as rolled	

Ladle analysis (cm-cm)

Heat No. (B07)	C %	Si %	Mn %	P %	S %	Ni %	Al %	Cu %	Cr %	Mo %
000B1669	0,463	0,242	0,663	0,008	0,003	0,055	0,032	0,026	0,249	0,007
Heat No. (B07)	V %									
000B1669	0,003									

Steel making: Basic oxygen process
(C01)

Our products are free of radioactive substances and do not exceed the clearing limit value of 100 Bq/kg, which guarantees the compliance with limit values given in the Radiation Protection Ordinance (StrlSchV) for the unrestricted clearance of solid material (StrlSchV Annex III, Section 5) for ferrous nuclides.

We hereby certify that the delivered material complies with the terms of the order.
(Z01)

Trademark
(A04)

Salzgitter Flachstahl GmbH
Eisenbahnhofstr. 99
D-37239 Salzgitter
(A01)

Inspection Representative
(Z02)

Kratz

This certificate was prepared by a suitable data processing system and is valid without signature according to EN 10204, section 5.